

BILL NO. S-94-08-06

SPECIAL ORDINANCE NO. S-82-94

AN ORDINANCE approving the awarding of I.T.B. #6067 by the City of Fort Wayne, Indiana, by and through its Department of Purchasing and B & B AIR, INC. for the Fort Wayne Fire Department.

NOW, THEREFORE, BE IT ORDAINED BY THE COMMON COUNCIL OF THE CITY OF FORT WAYNE, INDIANA;

SECTION 1. That I.T.B. #6067 between the City of Fort Wayne, by and through its Department of Purchasing and B & B AIR, INC. for the City of Fort Wayne Fire Department, respectfully for:

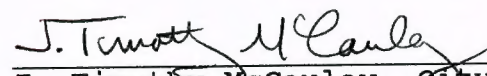
the purchase and installation of a Diesel Fume Abatement System at ten (10) Fire Stations and Fire Shop;

involving a total cost of One Hundred Sixty-Nine Thousand Three Hundred Eighty and no/100 Dollars (\$169,380.00), all as more particularly set forth in said I.T.B. #6067, which is on file in the Office of the Department of Purchasing, and is by reference incorporated herein, made a part hereof, and is hereby in all things ratified, confirmed and approved.

SECTION 2. That this Ordinance shall be in full force and effect from and after its passage and any and all necessary approval by the Mayor.

  
Council Member

APPROVED AS TO FORM  
AND LEGALITY

  
J. Timothy McCaulay, City Attorney

Read the first time in full and on motion by Edmonds, seconded by \_\_\_\_\_, and duly adopted, read the second time by title and referred to the Committee on Finance (and the City Plan Commission for recommendation) and Public Hearing to be held after due legal notice, at the Common Council Conference Room 128, City-County Building, Fort Wayne, Indiana, on \_\_\_\_\_, the \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, at \_\_\_\_\_ o'clock PM, E.S.T.

DATED: 8-23-94

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Read the third time in full and on motion by Islerid, seconded by \_\_\_\_\_, and duly adopted, placed on its passage. PASSED ~~lost~~ by the following vote:

	AYES	NAYS	ABSTAINED	ABSENT
TOTAL VOTES	_____	_____	_____	_____
BRADBURY	_____	✓	_____	_____
EDMONDS	_____	_____	_____	✓
GiaQUINTA	✓	_____	_____	_____
HENRY	_____	_____	_____	✓
LONG	✓	_____	_____	_____
LUNSEY	✓	_____	_____	_____
RAVINE	✓	_____	_____	_____
SCHMIDT	_____	✓	_____	_____
TALARICO	✓	_____	_____	_____

DATED: 11-15-94

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Passed and adopted by the Common Council of the City of Fort Wayne, Indiana, as (ANNEXATION) (APPROPRIATION) (GENERAL) (SPECIAL) (ZONING) ORDINANCE RESOLUTION NO. 82-94, on the 15th day of November, 1994

ATTEST:  
Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

(SEAL)  
Rebecca Parrie  
PRESIDING OFFICER

Presented by me to the Mayor of the City of Fort Wayne, Indiana, on the 16th day of November, 1994, at the hour of 11:00 o'clock A, M., E.S.T.

Sandra E. Kennedy  
SANDRA E. KENNEDY, CITY CLERK

Approved and signed by me this 17th day of November, 1994, at the hour of 12:20 o'clock PM, E.S.T.

Paul Helmke  
PAUL HELMKE, MAYOR



REF NO: 6067

DEPT.: FIRE DEPARTMENT

DATE: 08/10/94

ITEM/SERV.: PURCHASE & INSTALLATION OF DIESEL FUME ABATEMENT SYSTEM

**PURCHASING INFORMATION**

ADVERTISED BID:	Yes
DATES ADVERTISED:	08/16/93 & 08/23/93
DATE OPENED:	09/02/93
SINGLE SOURCE:	No
NO OF VENDORS NOTIFIED:	9
NO. OF VENDORS RECEIVING BID:	5
NO. OF VENDORS RETURNING BID:	2
NO. OF VENDORS DISQUALIFIED:	0
NO. OF VENDORS NOT RESPONDING:	7
DATE SENT TO DEPT. FOR RECOMM.:	09/07/93
DATE RECOMM. REC'D IN PURCH.:	08/04/94
DATE INFOR SENT TO LAW DEPT.:	08/10/94
INTRODUCTION DATE::	08/23/94
DISCUSSION:	09/06/94
PASSAGE DATE:	09/13/94

ITB 6067  
PURCHASE & INSTALLATION OF  
DIESEL FUME ABATEMENT SYSTEM  
OPENED: 9/2/93

DESCRIPTION	QTY	NAT'L INSTALLERS	B & B AIR
COMPLETE PACKAGE	1	\$182,067.00	\$169,380.00
STATION 1	1	\$ 49,000.00	\$ 42,117.00
STATION 2	1	\$ 17,500.00	\$ 17,937.00
STATION 5	1	\$ 15,300.00	\$ 11,819.00
STATION 6	1	\$ 14,900.00	\$ 12,001.00
STATION 7	1	\$ 11,900.00	\$ 11,639.00
STATION 9	1	\$ 17,000.00	\$ 18,121.00
STATION 10	1	\$ 8,200.00	\$ 6,810.00
STATION 11	1	\$ 11,600.00	\$ 11,410.00
STATION 12	1	\$ 11,900.00	\$ 11,932.00
STATION 14	1	\$ 9,800.00	\$ 12,421.00
FIRE SHOP	1	\$ 17,400.00	\$ 17,136.00

BACHARACH Sentinel 44T

Serial No. YD0550

Version T1

Last Calibration: 10/19/94

User:

TWA EXPOSURE - STARTING 11:09 10/24/94

TOXIC SENSOR 1 ( CO): 22 PPM ELAPSED TIME 07:05

MAXIMUM STEL EXPOSURE - STARTING 11:09 10/24/94

TOXIC SENSOR 1 ( CO): 157 PPM AT 11:45

PEAK READINGS - STARTING 11:09 10/24/94

	READING	TIME
MAXIMUM OXYGEN	21.5 %	17:38
MINIMUM OXYGEN	16.8 %	11:45
COMBUSTIBLES	0 % LEL	11:09
SENSOR 1 ( CO)	627 PPM	11:45
SENSOR 2 ( )	0 PPM	17:26

Exhaust Area  
Station 1

BACHARACH      Sentinel 44      Serial No. XG0657  
Version 4  
Last Calibration: 10/19/94  
User:

TWA EXPOSURE - STARTING 11:12 10/24/94  
TOXIC SENSOR 1 ( CO): 11 PPM ELAPSED TIME 07:05

MAXIMUM STEL EXPOSURE - STARTING 11:12 10/24/94  
TOXIC SENSOR 1 ( CO): 90 PPM AT 17:45

PEAK READINGS - STARTING 11:12 10/24/94

	READING	TIME
MAXIMUM OXYGEN	21.4 %	14:17
MINIMUM OXYGEN	20.8 %	11:45
COMBUSTIBLES	0 % LEL	11:12
SENSOR 1 ( CO)	175 PPM	11:45
SENSOR 2 ( )	42 PPM	17:45

Dress Out Area  
Station 1

BACHARACH Sentinel 44T

Serial No. YG0503

Version T2

Last Calibration: 10/19/94

User:

TWA EXPOSURE - STARTING 11:18 10/24/94

TOXIC SENSOR 1 ( CO): 16 PPM ELAPSED TIME 71:40

MAXIMUM STEL EXPOSURE - STARTING 11:18 10/24/94

TOXIC SENSOR 1 ( CO): 0 PPM AT 17:40

PEAK READINGS - STARTING 11:19 10/24/94

	READING	TIME
MAXIMUM OXYGEN	21.7 %	14:27
MINIMUM OXYGEN	20.8 %	10:38
COMBUSTIBLES	0.0 % CH4	11:19
SENSOR 1 ( CO)	259 PPM	11:41
SENSOR 2 ( )	0 PPM	17:40

Bay Area  
Station 1

No Histogram



BACHARACH    Sentinel 44T            Serial No. YD0582  
   Version T1  
   Last Calibration: 09/06/94  
   User:

TWA EXPOSURE - STARTING 11:28 10/24/94  
TOXIC SENSOR 1 ( CO):    7 PPM ELAPSED TIME    07:10

MAXIMUM STEL EXPOSURE - STARTING 11:28 10/24/94  
TOXIC SENSOR 1 ( CO):    21 PPM AT 17:55

PEAK READINGS - STARTING 11:29 10/24/94

	READING	TIME
MAXIMUM OXYGEN	21.6 %	14:12
MINIMUM OXYGEN	20.9 %	11:29
COMBUSTIBLES	0 % LEL	11:29
SENSOR    1 ( CO)	33 PPM	17:55
SENSOR    2 (    )	0 PPM	18:33

Watch Room  
Station 1



BACHARACH Sentinel 44T

Serial No. YD0582

Version T1

Last Calibration: 09/06/94

User:

TWA EXPOSURE - STARTING 09:23 10/21/94

TOXIC SENSOR 1 ( CO): 3 PPM ELAPSED TIME 08:11

MAXIMUM STEL EXPOSURE - STARTING 09:23 10/21/94

TOXIC SENSOR 1 ( CO): 10 PPM AT 13:16

PEAK READINGS - STARTING 09:23 10/21/94

	READING	TIME
MAXIMUM OXYGEN	21.6 %	16:40
MINIMUM OXYGEN	19.5 %	15:12
COMBUSTIBLES	7 % LEL	09:23
SENSOR 1 ( CO)	175 PPM	09:48
SENSOR 2 ( )	0 PPM	15:12

At Pump 2 Exhaust

OSHA TWA = 35ppm

OSHA STEL = 200ppm

TWA is measured over  
8 hours

STEL is measured over  
15 minutes

BACHARACH Sentinel 44T

Serial No. YG0503

Version T2

Last Calibration: 10/19/94

User:

TWA EXPOSURE - STARTING 09:23 10/21/94

TOXIC SENSOR 1 ( CO): 1 PPM ELAPSED TIME 07:59

MAXIMUM STEL EXPOSURE - STARTING 09:23 10/21/94

TOXIC SENSOR 1 ( CO): 6 PPM AT 13:13

PEAK READINGS - STARTING 09:23 10/21/94

	READING	TIME
MAXIMUM OXYGEN	21.4 %	14:54
MINIMUM OXYGEN	20.7 %	09:29
COMBUSTIBLES	7 % LEL	09:24
SENSOR 1 ( CO)	8 PPM	13:13
SENSOR 2 ( )	0 PPM	17:21

At Pump 2 Dress Out Area

BACHARACH Sentinel 44T Serial No. YD0550  
Version T1  
Last Calibration: 10/19/94  
User:

TWA EXPOSURE - STARTING 09:17 10/21/94  
TOXIC SENSOR 1 ( CO): 3 PPM ELAPSED TIME 08:11

MAXIMUM STEL EXPOSURE - STARTING 09:17 10/21/94  
TOXIC SENSOR 1 ( CO): 8 PPM AT 13:17

PEAK READINGS - STARTING 09:17 10/21/94

	READING	TIME
MAXIMUM OXYGEN	21.5 %	13:17
MINIMUM OXYGEN	20.7 %	09:20
COMBUSTIBLES	7 % LEL	09:19
SENSOR 1 ( CO)	11 PPM	13:17
SENSOR 2 ( )	0 PPM	16:18

Bay Area Behind Pump 2  
and next to Ladder 2



BACHARACH      Sentinel 44      Serial No. XG0657  
Version 4  
Last Calibration: 10/19/94  
User:

TWA EXPOSURE - STARTING 09:27 10/21/94  
TOXIC SENSOR 1 ( CO): 0 PPM ELAPSED TIME 07:46

MAXIMUM STEL EXPOSURE - STARTING 09:27 10/21/94  
TOXIC SENSOR 1 ( CO): 9 PPM AT 09:28

PEAK READINGS - STARTING 09:27 10/21/94

	READING	TIME
MAXIMUM OXYGEN	21.4 %	13:45
MINIMUM OXYGEN	20.8 %	09:31
COMBUSTIBLES	0 % LEL	09:29
SENSOR 1 ( CO)	36 PPM	09:27
SENSOR 2 ( )	32 PPM	15:46

Living Area

	CO (ppm)			O2		
	Before	During	After	Before	During	After
Station 1	2	459	24	20.9%	17.0%	20.6%
Station 2	1	550	20	20.7%	16.5%	19.0%
Station 7	2	503	22	20.8%	17.5%	20.7%
Station 8	0	0	0	0.0%	0.0%	0.0%
Station 9	3	439	21	20.8%	16.5%	19.0%

CO level was significant in kitchen, bedroom and apparatus room several minutes after equipment turned off.

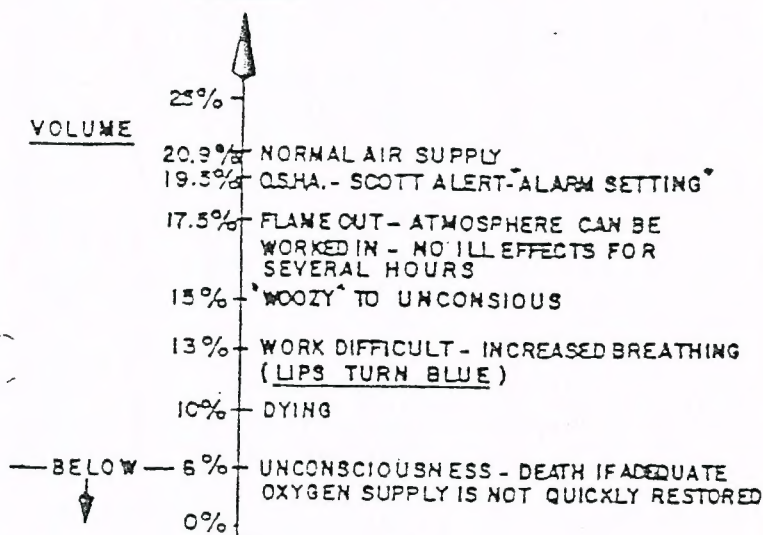
Hydrogen Sulfide levels averaged 12 - 17 ppm for each station tested.

# STOP

## BEFORE ENTRY - TEST FOR OXYGEN - COMBUSTIBLE GAS - TOXIC GAS

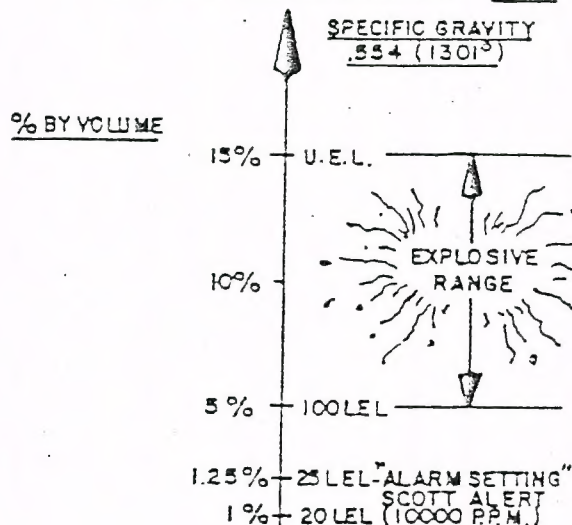
### 1

OXYGEN



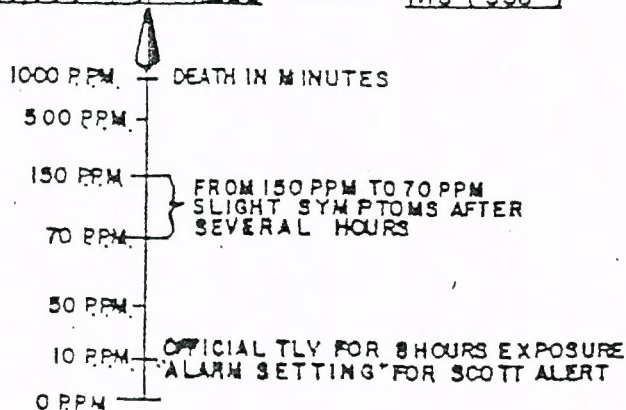
### 2

COMBUSTIBLE - METHANE -  $\text{CH}_4$



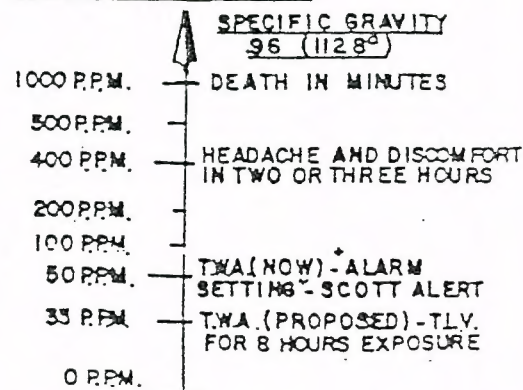
### 3

HYDROGEN SULFIDE -  $\text{H}_2\text{S}$  - SPECIFIC GRAVITY  
40,000 P.P.M. 4% LEL 1.18 (558°)



### 4

TOXIC - CARBON MONOXIDE -  $\text{CO}$   
120,000 P.P.M. 12% LEL.



HARRY J. KWIEK  
TECHNICAL SALES REPRESENTATIVE  
INSTRUMENTS & CONTROL SYSTEMS





# The City of Fort Wayne

Paul Helmke, Mayor

RECEIVED  
1994 AUG - 4 PM 2:05  
CITY CLERK'S OFFICE

City of Fort Wayne  
Council Members  
City Council Chambers

Dear Council Member;

Before you is an ordinance requesting approval for the purchase and installation of a Diesel Fume Abatement System for the Fort Wayne Fire Department. This system will be used for the removal of diesel fumes. The bid was awarded to B & B Air in Indianapolis, Indiana. They were the lowest and most responsive of two bidders.

This purchase was previously approved for the 1994 Safety Bond.

Sincerely,

S-94-08-06

Sharon Parks  
Administrative Assistant

## **DIGEST SHEET**

TITLE OF ORDINANCE: Special

DEPARTMENT REQUESTING ORDINANCE: Purchasing

SYNOPSIS OF ORDINANCE: An ordinance approving the award of ITB 6067 for the Purchase and Installation of Diesel Fume Abatement System at (10) Fire Stations and Fire Shop per specifications. The cost reflects the most responsive bidder and should be awarded to B & B Air in the amount of \$169,380.00. This will be assigned a price agreement upon Councilmanic Approval.

IF NOT LOWEST, WHO WAS AND WHY WERE THEY NOT AWARDED:

EFFECT OF PASSAGE: Will meet OSHA requirements

IF REPLACEMENT, WHAT NECESSITATES:

EFFECT OF NON-PASSAGE: Diesel Fumes have proven to be a Cancer causing agent and produces large amounts of soot. If not approved could face OSHA violations.

PRIOR APPROVAL REQUESTED: No

DATE:

ACCOUNT INFORMATION: Fire Department

PRICE AGREEMENT: Yes

PURCHASE ORDER:

MONIES INVOLVED: B & B Air Inc \$169,380.00

BILL NO. S-94-08-06

REPORT OF THE COMMITTEE ON  
FINANCE

CLETUS R. EDMONDS - DONALD J. SCHMIDT - CO-CHAIR  
ARCHIE L. LUNSEY  
DAVID C. LONG

*Common of Whales*  
*1 full*  
*tail*  
*11-15*

WE, YOUR COMMITTEE ON FINANCE TO WHOM WAS

REFERRED AN (ORDINANCE) (~~RESOLUTION~~) approving the awarding  
of I.T.B. #6067 by the City of Fort Wayne, Indiana, by and through its  
Department of Purchasing and B & B AIR, INC. for the Fort Wayne Fire  
Department

HAVE HAD SAID (ORDINANCE) (~~RESOLUTION~~) UNDER CONSIDERATION  
AND BEG LEAVE TO REPORT BACK TO THE COMMON COUNCIL THAT SAID  
(ORDINANCE) (~~RESOLUTION~~)

DO PASS

DO NOT PASS

ABSTAIN

NO REC

*[Signature]*

*[Signature]* *[Signature]*

DATED: *11-15-94*

Sandra E. Kennedy  
City Clerk